

FIG. 3

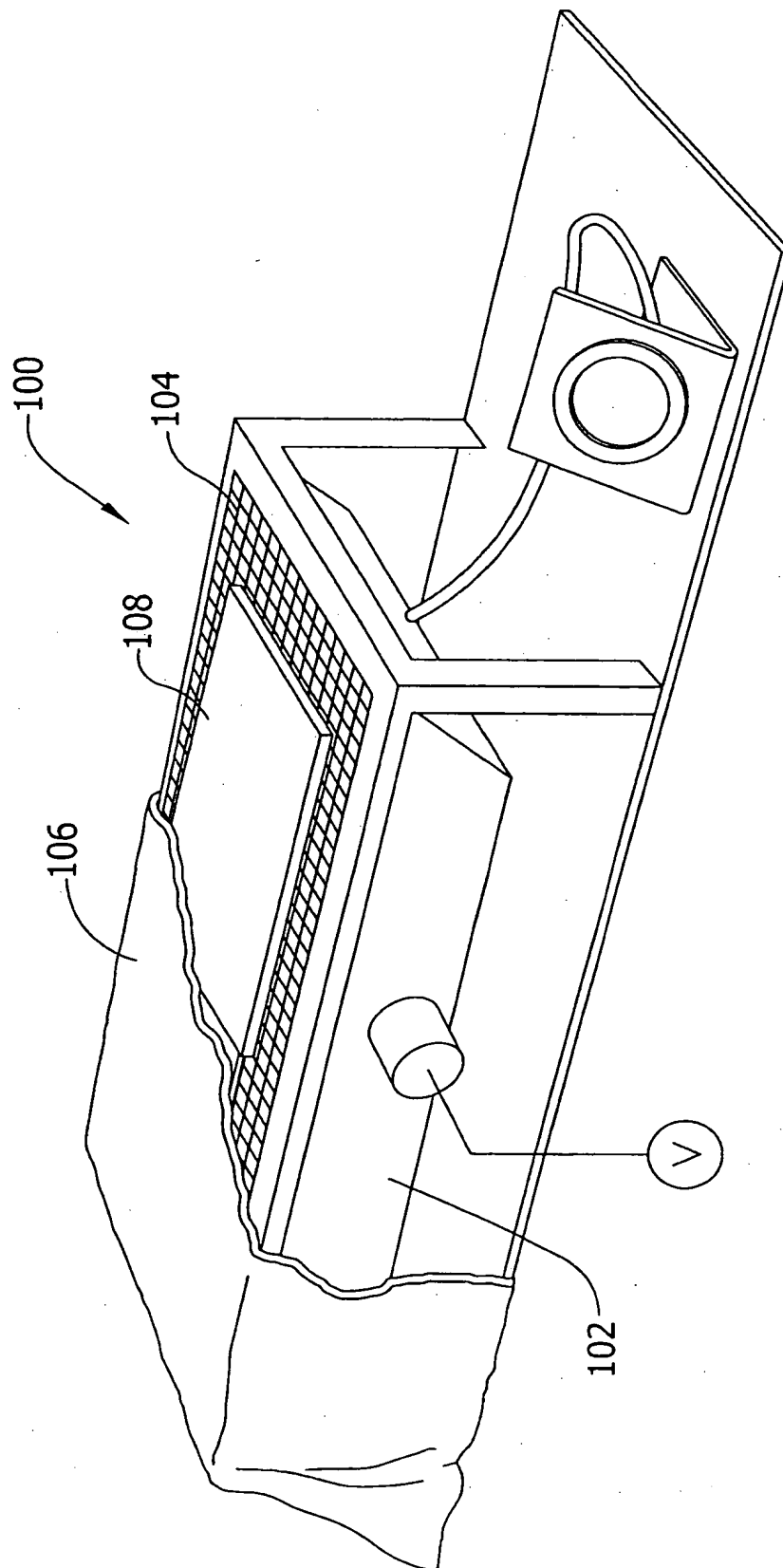


FIG. 4

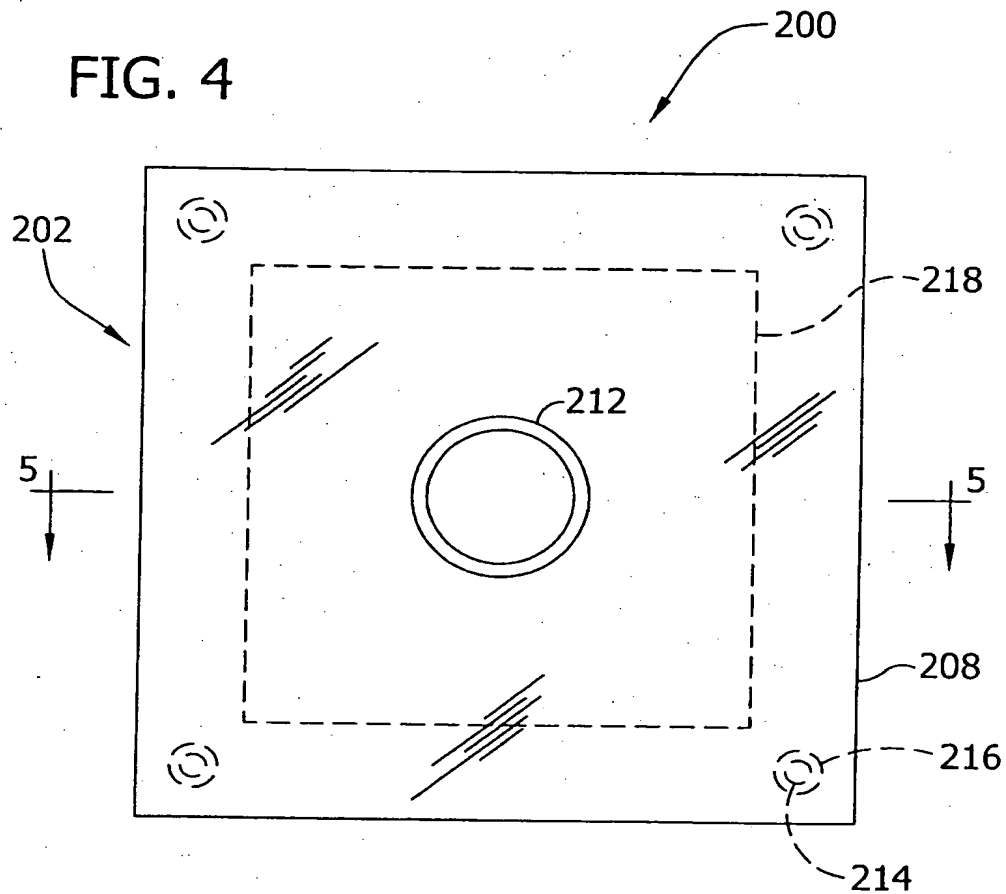


FIG. 5

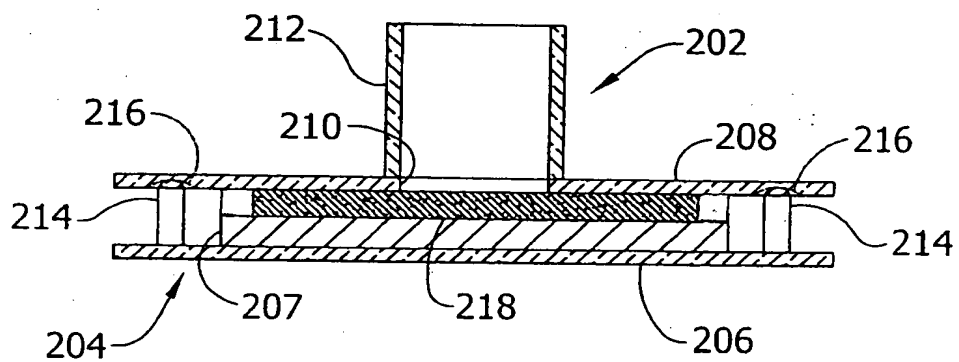
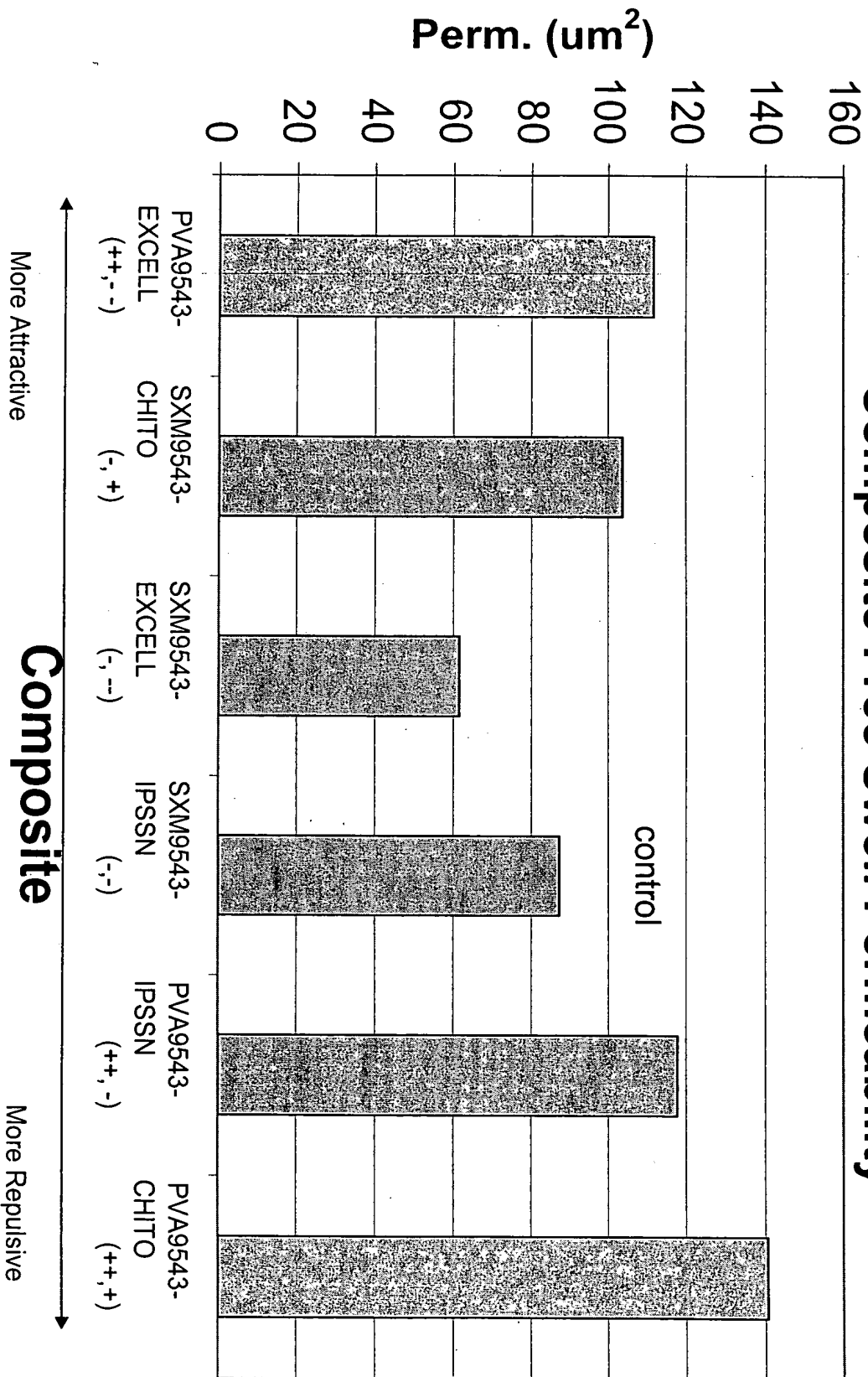


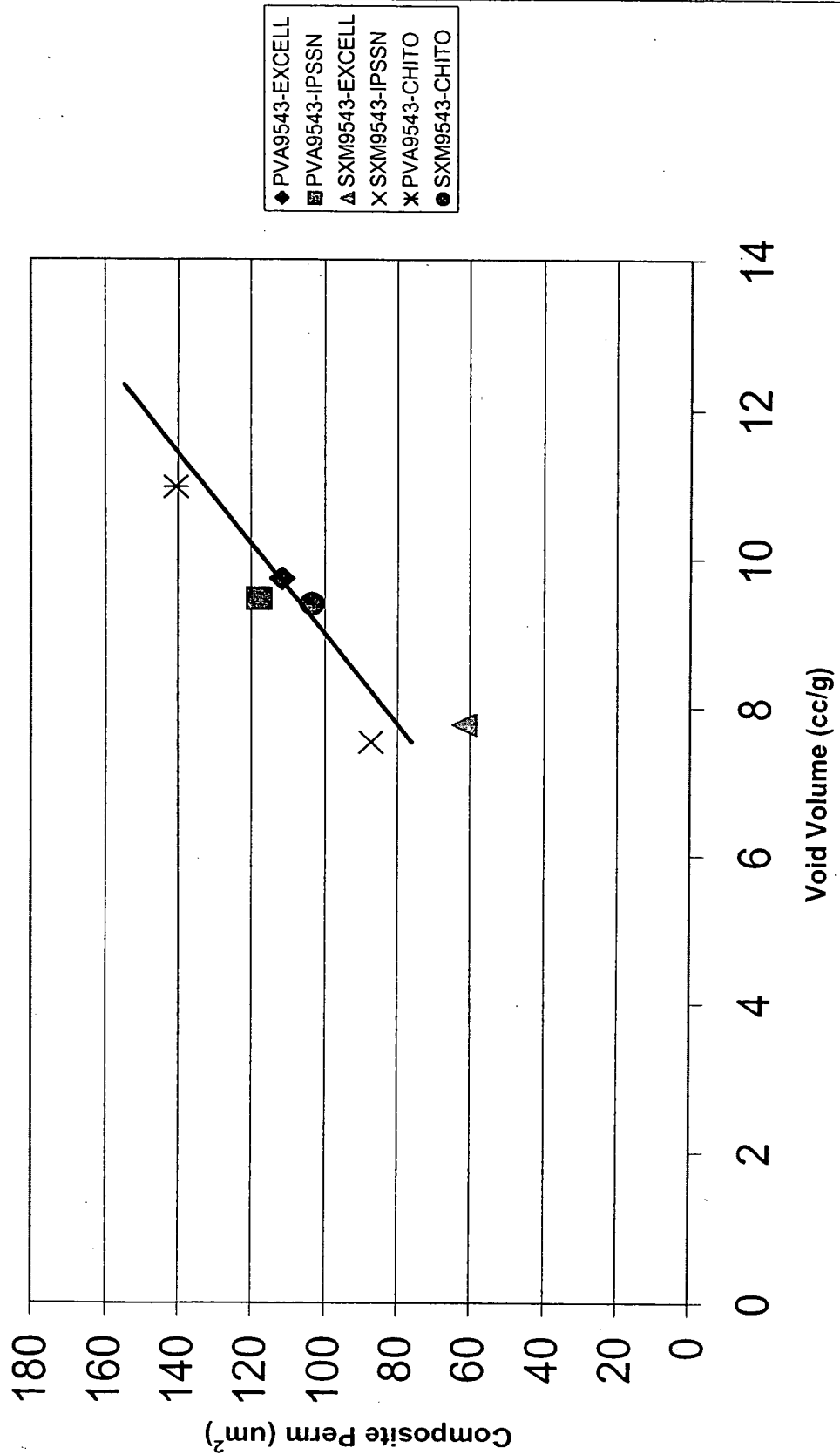
FIG. 6

CP = Composite Permeability																		
SAP Type	Fiber Type	SAP Type	Fiber Type	SAP CRC (g/g)	Fiber CRC (g/g)	0.5pt Sat Cap (g/g)	Perm (um <sup>2</sup> )	CP Dry Den (g/cc)	CP BW (gsm)	CP Void Volume (cc/g)	FIE Insult <sup>1</sup> (ml/s)	FIE Insult <sup>2</sup> (ml/s)	FIE Insult <sup>3</sup> (ml/s)	FIE Dry Thick (mm)	FIE Thick <sup>1</sup> (mm)	FIE Thick <sup>2</sup> (mm)	FIE Thick <sup>3</sup> (mm)	Initial FIE Wt (g)
II	II	PVA9543 EXCELL	II	22.1	0.78	17.0	108.5	0.119	478.8	9.8	1.72	2.65	1.32	3.04	6.58	7.80	8.36	2.871
II	II	PVA9543 EXCELL	II	22.1	0.78		113.6	0.125	478.8	10.2	2.39	2.55	1.23	3.31	6.30	7.46	8.02	2.831
II	II	PVA9543 EXCELL	II	22.1	0.78		112.8	0.115	464.9	9.2	2.18	2.21	1.04	3.26	6.35	7.56	8.18	2.838
Avg	II	PVA9543 EXCELL	II	22.1	0.78	17.0	111.6	0.120	474.2	9.7	2.10	2.47	1.20	3.20	6.41	7.61	8.19	2.847
II	I	PVA9543 IPSSN	II	22.1	1.13	17.2	113.0	0.081	444.1	9.2	1.59	16.92	4.94	3.09	7.39	8.76	9.22	2.856
II	I	PVA9543 IPSSN	II	22.1	1.13		114.5	0.130	475.3	9.8	1.38	15.63	3.18	3.06	7.11	8.60	9.25	2.909
II	I	PVA9543 IPSSN	II	22.1	1.13		125.7	0.132	440.6	9.4	1.54	14.14	2.55	3.13	7.11	8.44	8.98	2.880
Avg	II	PVA9543 IPSSN	II	22.1	1.13	17.2	117.7	0.114	453.3	9.5	1.50	15.56	3.56	3.09	7.20	8.60	9.15	2.882
II	II	SXM9543 EXCELL	II	23	0.78	15.9	57.8	0.127	492.7	7.6	2.90	4.26	2.66	3.45	6.71	8.17	8.77	2.805
I	II	SXM9543 EXCELL	I	23	0.78		64.6	0.125	475.3	8.0	2.56	5.26	4.24	3.36	6.85	8.35	8.94	2.822
I	II	SXM9543 EXCELL	I	23	0.78		62.0	0.126	482.3	7.7	2.61	6.12	5.04	3.42	6.98	8.47	9.08	2.810
Avg	I	SXM9543 EXCELL	I	23	0.78	15.9	61.5	0.126	483.4	7.8	2.69	5.21	3.98	3.41	6.85	8.33	8.93	2.812
I	I	SXM9543 IPSSN	I	23	1.13	16.5	90.2	0.135	454.5	7.7	1.98	13.93	11.46	3.20	7.75	9.51	10.08	2.871
I	I	SXM9543 IPSSN	I	23	1.13		84.1	0.122	461.5	7.1	1.89	8.58	8.10	3.16	7.70	9.38	10.03	2.879
I	I	SXM9543 IPSSN	I	23	1.13		87.6	0.116	430.2	7.8	1.91	5.39	5.39	3.11	7.23	8.85	9.42	2.840
Avg	I	SXM9543 IPSSN	I	23	1.13	16.5	87.3	0.124	448.7	7.5	1.93	9.30	8.32	3.16	7.56	9.25	9.84	2.863
II	III	PVA9543 CHITO	II	22.1	0.87	15.1	155.8	0.125	482.3	11.9	0.96	13.46	12.42	2.99	7.30	8.91	9.61	2.700
II	III	PVA9543 CHITO	II	22.1	0.87	16.8	134.3	0.114	458.0	10.3	1.19	14.49	12.14	3.26	7.46	9.06	9.76	2.664
II	III	PVA9543 CHITO	II	22.1	0.87		131.3	0.110	468.4	10.7	1.11	12.95	12.95	3.39	7.40	9.01	9.61	2.570
Avg	II	PVA9543 CHITO	II	22.1	0.87	15.9	140.5	0.116	469.6	11.0	1.09	13.63	12.50	3.21	7.38	8.99	9.66	2.645
I	III	SXM9543 CHITO	I	23	0.87	16.9	111.9	0.104	485.7	10.0	1.71	4.50	2.32	3.36	7.61	8.75	9.27	2.628
I	III	SXM9543 CHITO	I	23	0.87	17.3	89.3	0.122	492.7	8.9	1.55	5.33	3.91	3.22	7.42	8.82	9.36	2.665
I	III	SXM9543 CHITO	I	23	0.87		109.4	0.125	503.1	9.3	1.71	4.01	1.98	3.47	7.57	8.68	9.22	2.667
Avg	I	SXM9543 CHITO	I	23	0.87	17.3	103.5	0.117	493.8	9.4	1.66	4.61	2.74	3.35	7.53	8.75	9.29	2.653

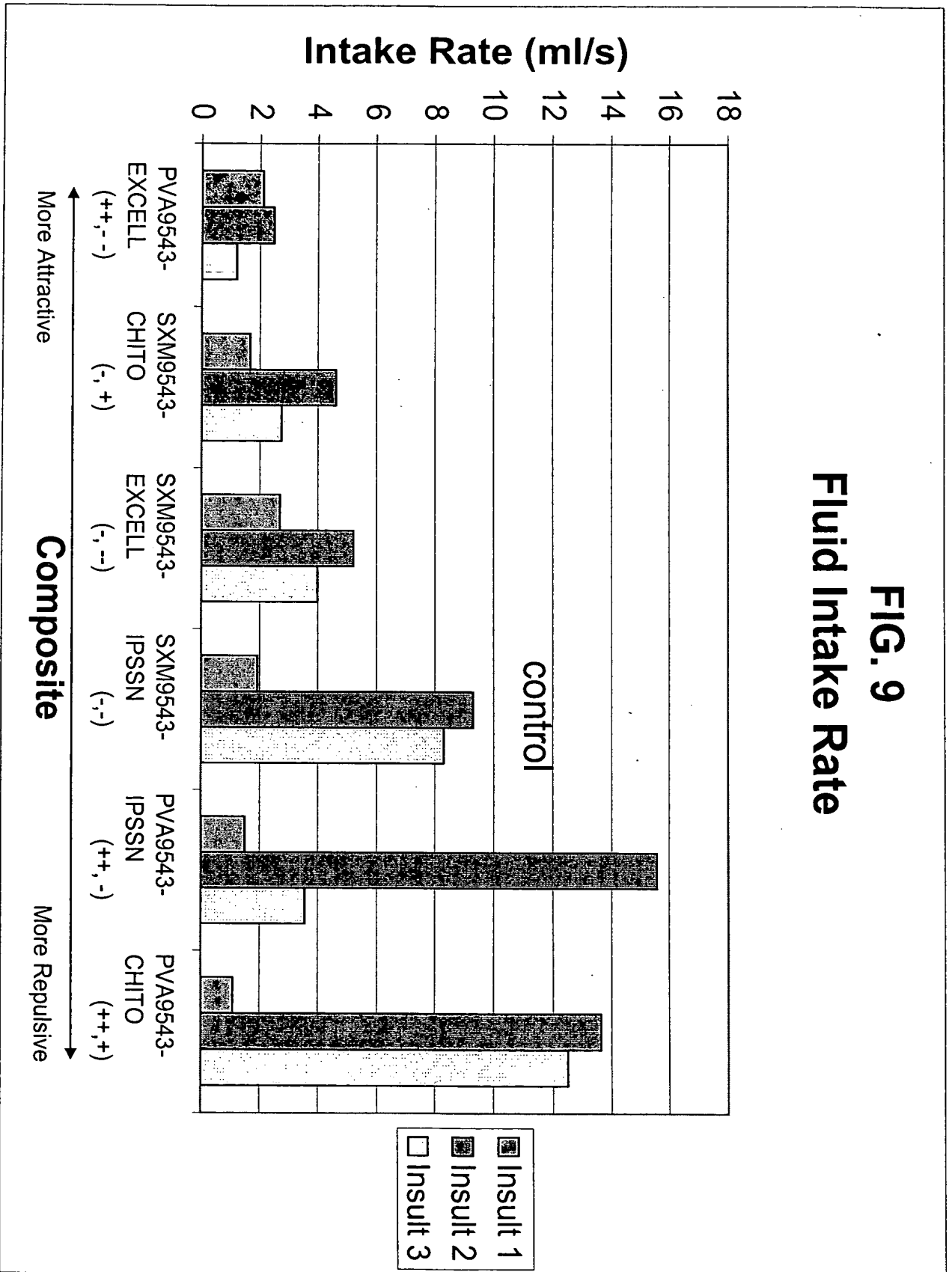
**FIG. 7**  
**Composite Free Swell Permeability**



**FIG. 8**  
**Void Volume vs. Permeability**



**FIG. 9**  
**Fluid Intake Rate**



**FIG. 10**  
**Sample Thickness vs. Intake Rate**

